

**ABSTRACT**

A process for the production of metal fluorides comprising introducing a predetermined weight of anhydrous hydrofluoric acid into a reaction vessel and initiate a mixing action, preheating a predetermined weight of anhydrous metal to a predetermined reaction temperature, introducing aliquots of the anhydrous metal into the reaction vessel at intervals until the entire predetermined weight of the anhydrous metal has been added, removing excess anhydrous hydrofluoric acid from the reaction vessel, and remove a metal fluoride resultant product from the reaction vessel.